

#2

OIPE

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION:** US/10/010,969

**DATE:** 12/20/2001  
**TIME:** 14:06:48

**Input Set :** A:\es.txt  
**Output Set:** N:\CRF3\12202001\J010969.raw

```

4 <110> APPLICANT: Zalacain, Magdalena
5       Biswas, Sanjoy
6       Warren, Patrick, V.
7       Ingraham, Karen A.
8       So, Chi Young
9       Holmes, David J.
10      van Horn, Stephanie
13 <120> TITLE OF INVENTION: yraB
16 <130> FILE REFERENCE: GM20032
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/010,969
C--> 18 <141> CURRENT FILING DATE: 2001-11-13
18 <150> PRIOR APPLICATION NUMBER: 60/253,408
19 <151> PRIOR FILING DATE: 2000-11-28
21 <160> NUMBER OF SEQ ID NOS: 2
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 354
27 <212> TYPE: DNA
28 <213> ORGANISM: Streptococcus pneumoniae
30 <400> SEQUENCE: 1
31 gtgaatatta aatctgccag tgatttggaaatttcag cggtatcgat tcggatttat 60
32 gaacgggttg gtcttgtgcc accgattact cgtactgcta ctgggatttcg tgatttcaa 120
33 gatcaggata tcgaagcgcgt gaaattttatt aagtgttttc gttcggcggg tgcgtctgt 180
34 gatagtttag ttgactatat gtcgctctac caaaaaggag atgaaacgag agaggagagg 240
35 cttggatttt tagaagagga aaagcaaaaa tttagaggagc gcttgcgtca gatacagaca 300
36 gctttaaatc gtttaatct caaaattaaa ctttataagg aaggaaaatt tttaa 354
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 117
40 <212> TYPE: PRT
41 <213> ORGANISM: Streptococcus pneumoniae
43 <400> SEQUENCE: 2
44 Met Asn Ile Lys Ser Ala Ser Asp Leu Leu Glu Ile Ser Ala Asp Thr
45 1           5           10          15
46 Ile Arg Tyr Tyr Glu Arg Val Gly Leu Val Pro Pro Ile Thr Arg Thr
47 20          25          30
48 Ala Thr Gly Ile Arg Asp Phe Gln Asp Gln Asp Ile Glu Ala Leu Glu
49 35          40          45
50 Phe Ile Lys Cys Phe Arg Ser Ala Gly Val Ser Val Asp Ser Leu Val
51 50          55          60
52 Asp Tyr Met Ser Leu Tyr Gln Lys Gly Asp Glu Thr Arg Glu Glu Arg
53 65          70          75          80
54 Leu Gly Ile Leu Glu Glu Lys Gln Lys Leu Glu Glu Arg Leu Ser
55 85          90          95
56 Gln Ile Gln Thr Ala Leu Asn Arg Leu Asn Leu Lys Ile Lys Leu Tyr
57 100         105         110
58 Lys Glu Gly Lys Phe
59 115

```

**ENTERED**

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/010,969

DATE: 12/20/2001

TIME: 14:06:49

Input Set : A:\es.txt

Output Set: N:\CRF3\12202001\J010969.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application No  
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date